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Quiz 4.2 to 4.4 ~~ANSWER KEY~~

State the domain and range of each relation. Tell whether it is a function.

①  $\{(2, 8), (4, 6), (3, 7), (5, 8), (6, 7)\}$

③

$D: \{2, 3, 4, 5, 6\}$

$R: \{6, 7, 8\}$  yes, it is a function

②

X	2	0	1	-2	3	-2
Y	4	3	5	-8	7	3

③

$D: \{-2, 0, 1, 2, 3\}$

No, it's not a function

$R: \{-8, 3, 4, 5, 7\}$

③ Determine the relationship between  $x$  &  $y$   
give an equation.

x	1	2	3	4	5
y	3	6	9	12	15

①

$y = 3x$

7

- ⑪ Find the value of  $x$  so that  $(x, 5)$  satisfies  $y = -x + 9$

$$\begin{array}{rcl} 5 & = & -x + 9 \\ -9 & & -9 \end{array}$$

⑫

$$\frac{-4}{-1} = \frac{-x}{-1}$$

$$\boxed{x=4}$$

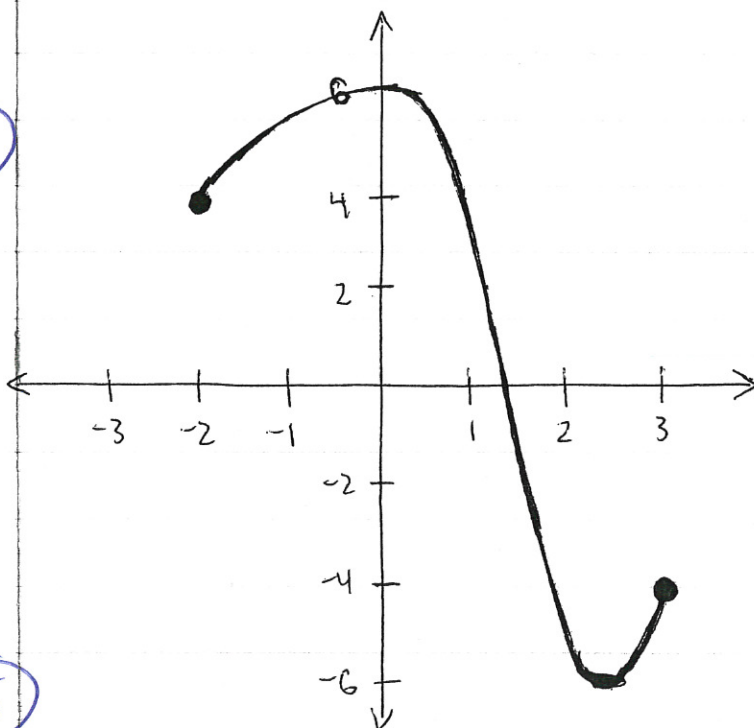
- ⑫ Find the value of  $y$  so that  $(4, y)$  satisfies  $y = x$

⑬

$$\boxed{y=4}$$

- ⑬ Give the range and domain of the following function

⑭



$$D: -2 \leq x \leq 3$$

$$R: -6 \leq y \leq 6$$

⑮

Write a function given the following.

(14)  $-8, -3, 2, 7, 12, \dots$

$$f(x) = 5x - 13$$

(a) Find the  $39^{\text{th}}$  term.

$$f(39) = 5(39) - 13$$

$$f(39) = 182$$

(15)  $\frac{1}{2}, 1, 1\frac{1}{2}, 2, 2\frac{1}{2}, \dots$

$$f(x) = \frac{1}{2}x$$

(a) Find the  $102^{\text{nd}}$  Term.

$$f(x) = 51$$